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1 [Simplified approaches to modeling accumulating and nonaccumulating conveyor systems](#)

James O. Henriksen, Thomas J. Schriber

December 1986 **Proceedings of the 18th conference on Winter simulation**

Full text available: [pdf\(2.02 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

In many systems (e.g., manufacturing systems), transportation of work-in-process is accomplished by conveyors. The modeling of objects as they move along conveyors is logically demanding, especially when a fine-grained, inch-by-inch approach is taken. Two alternative and substantially simplified modeling approaches for representing movement of objects on conveyors are presented in this paper: the "minimum travel time" approach and the "minimum travel distance" approach. The first approach is appropriate for accumulating conveyor systems, and the second approach is appropriate for nonaccumulating conveyor systems.

2 [Performance analysis of ATM Banyan networks with shared queueing—part I: random offered loads](#)

Stefano Gianatti, Achille Pattavina

August 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 4

Full text available: [pdf\(1.55 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Tight bounds for k-set agreement](#)

Soma Chaudhuri, Maurice Herlihy, Nancy A. Lynch, Mark R. Tuttle

September 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 5

Full text available: [pdf\(1.16 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

We prove tight bounds on the time needed to solve k-set agreement. In this problem, each processor starts with an arbitrary input value taken from a fixed set, and halts after choosing an output value. In every execution, all processors must choose the same output value, and every processor's output value must be some processor's input value. We analyze this problem in a synchronous, message-passing model where processors fail only by crashing.

Keywords: k-set agreement, Spwener's Lemma, crash failure model, message-passing systems, systems, topology


4 [Independence in CLP languages](#)

María García de la Banda, Manuel Hermenegildo, Kim Marriott

March 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 2

Full text available:

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 [pdf\(465.79 KB\)](#)

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Studying independence of goals has proven very useful in the context of logic programming. In particular, it has provided a formal basis for powerful automatic parallelization tools, since independence ensures that goals can be evaluated in parallel while preserving correctness and efficiency. We extend the concept of independent goals to constraint logic programs (CLP) and prove that it also ensures the correctness and efficiency of the evaluation of independent goals. Independence ...

Keywords: constraint logic programming, independence, parallelism

5 [Passes, sweeps, and visits in attribute grammars](#)

Joost Engelfriet, Gilberto Filé

October 1989 **Journal of the ACM (JACM)**, Volume 36 Issue 4

Full text available:  [pdf\(2.28 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [citations](#)

Theoretical results are presented on multi-pass (both left-to-right and alternating), multi-sweep, and multi-visit attribute grammars. For each of these, a pure type and a simple type are distinguished: The pure types are defined by nondeterministic attribute evaluators, and the simple ones by the corresponding (deterministic) evaluators. The time complexity of deciding membership in these classes of attribute grammars is studied. This is harder for the pure case ...

6 [Concurrent search structure algorithms](#)

Dennis Shasha, Nathan Goodman

March 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 1

Full text available:  [pdf\(2.72 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A dictionary is an abstract data type supporting the actions member, insert, and delete. A search structure used to implement a dictionary. Examples include B trees, hash structures, and unordered search structures. Algorithms on search structures can achieve more parallelism than standard concurrency control algorithms suggest, by exploiting the fact that many different search structure states represent one dictionary. A framework for verifying such a ...

7 [Special issue: AI in engineering](#)

D. Sriram, R. Joobhani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available:  [pdf\(8.79 MB\)](#)


Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is evident from the papers received from over six countries. About half the papers were received over the computer network.

8 [Models of machines and computation for mapping in multicomputers](#)

Michael G. Norman, Peter Thanisch

September 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 3

Full text available:  [pdf\(3.49 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: mapping, multicomputer load balancing, multicomputers, partitioning, scheduling

9 [PAC learning intersections of halfspaces with membership queries \(extended abstract\)](#)

Stephen Kwek, Leonard Pitt

January 1996 **Proceedings of the ninth annual conference on Computational learning theory**


Full text available:  [pdf\(1.16 MB\)](#)

Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

10 [Semantics of query languages for network databases](#)

Kazimierz Subieta

September 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 3

Full text available:  [pdf\(3.71 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Semantics determines the meaning of language constructs; hence it says much more than syntax implementing the language. The main purpose of this paper is a formal presentation of the meani constructs employed in many database languages (sublanguages). Therefore, stylized query langi Selection Language) and J (Joins) are introduced, wherein most of the typical entries present in o are collected. The semantics of SSL and J are ...

11 [Distributed query evaluation on semistructured data](#)

Dan Suciu

March 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 1

Full text available:  [pdf\(689.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Semistructured data is modeled as a rooted, labeled graph. The simplest kinds of queries on such which traverse paths described by regular path expressions. More complex queries combine sever expressions, with complex data restructuring, and with sub-queries. This article addresses the pr query evaluation on distributed, semistructured databases. In our setting, the nodes of the datab over a fixed number of sites, and the ...

Keywords: Distributed evaluation, nested queries, parallel complexity, regular expressions, semi

12 [Hypermedia and Graphics 1: Towards the convergence between hypermedia authoring lang architecture description languages](#)

Débora Christina Muchaluat-Saade, Luiz Fernando Gomes Soares

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available:  [pdf\(81.50 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index](#)

This paper presents a detailed comparison between the structural elements and definitions provid Authoring Languages and Architecture Description Languages (ADL). ADLs are formal languages t representing a software architecture. Although it may look trivial to make a direct correspondence hypermedia structural entities, such as components to nodes and connectors to links, interesting identified when observing them more closely ...

Keywords: ADL, architecture description languages, components, connectors, hypermedia autho structural meta-model

13 [A semisupervised learning method to merge search engine results](#)

Luo Si, Jamie Callan

October 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 4

Full text available:  [pdf\(463.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index](#)


The proliferation of searchable text databases on local area networks and the Internet causes the information that may be distributed among many disjoint text databases (*distributed information* merge the results returned by selected databases is an important subproblem of the distributed ir task. Previous research assumed that either resource providers cooperate to provide normalizing clients download all retrie ...

Keywords: Distributed information retrieval, resource ranking, resource selection, results merging learning method, server selection

14 A scalable formal method for design and automatic checking of user interfaces

Jean Berstel, Stefano Crespi Reghizzi, Gilles Roussel, Pierluigi San Pietro

April 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1

Full text available:  [pdf\(1.74 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The article addresses the formal specification, design and implementation of the behavioral component of user interfaces. The complex sequences of visual events and actions that constitute dialogs are specified by modular, communicating grammars called VEG (Visual Event Grammars), which extend traditional grammars to make them more convenient to model dialogs. A VEG specification is independent of the actual layout and can easily be integrated with various languages ...

Keywords: GUI design, Human-computer interaction (HCI), applications of model checking

15 Mixed integer programming methods for computing nonmonotonic deductive databases

Colin Bell, Anil Nerode, Raymond T. Ng, V. S. Subrahmanian

November 1994 **Journal of the ACM (JACM)**, Volume 41 Issue 6

Full text available:  [pdf\(2.54 MB\)](#)

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Though the declarative semantics of both explicit and nonmonotonic negation in logic programs has been studied extensively, relatively little work has been done on computation and implementation of these semantics. In this paper we study three different approaches to computing stable models of logic programs based on mixed integer programming methods for automated deduction introduced by R. Jeroslow. We subsequently discuss the efficiency of these algorithms. The results of ...

Keywords: deductive databases, logic programming, nonmonotonic reasoning, operations research

16 Generalized best-first search strategies and the optimality of A*

Rina Dechter, Judea Pearl

July 1985 **Journal of the ACM (JACM)**, Volume 32 Issue 3

Full text available:  [pdf\(2.54 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper reports several properties of heuristic best-first search strategies whose scoring function uses the information available from each candidate path, not merely on the current cost g and the estimated cost h . It is shown that several known properties of A* retain their form (with the minmax of f plus optimal cost), which helps establish general tests of admissibility and general conditions for ...

17 Detecting static algorithms by partial evaluation

Björn Lisper

May 1991 **ACM SIGPLAN Notices , Proceedings of the 1991 ACM SIGPLAN symposium on and semantics-based program manipulation**, Volume 26 Issue 9

Full text available:  [pdf\(1.28 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Deadlock detection in distributed databases

Edgar Knapp

December 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 4

Full text available:  [pdf\(2.58 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The problem of deadlock detection in distributed systems has undergone extensive study. An important ...

relates to distributed database systems. A uniform model in which published algorithms can be ca
fundamental principles on which distributed deadlock detection schemes are based are presented.
represent mechanisms for developing distributed algorithms in general and deadlock detection scl
In addition, a hierarchy of deadlock ...

19 Session 10: Algebraic aspects of relational database decomposition

Stephen J. Hegner

March 1983 **Proceedings of the 2nd ACM SIGACT-SIGMOD symposium on Principles of data**

Full text available:  [pdf\(1.78 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

An algebraic framework for investigating the problem of decomposing a relational database schen
is developed. It is argued that the views of a relational schema which are to be the components o
should form a finite atomic Boolean algebra. The unit of the algebra is the identity view, and the
The join operation in this algebra is to be a generalization of the usual concept of join; the resulti
contain precisely the representat ...

20 Institutions: abstract model theory for specification and programming

Joseph A. Goguen, Rod M. Burstall

January 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 1

Full text available:  [pdf\(3.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

There is a population explosion among the logical systems used in computing science. Examples i
logic, equational logic, Horn-clause logic, higher-order logic, infinitary logic, dynamic logic, intuiti
sorted logic, and temporal logic; moreover, there is a tendency for each theorem prover to have i
logical system. The concept of institution is introduced to formalize the informal notion of "logical

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IEEE STD IEEE Standard

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Yu-Kwong Kwok; Karlapalem, K.; Ahmad, I.; Ng Moon Pun;
Selected Areas in Communications, IEEE Journal on
Volume 14, Issue 7, Sept. 1996 Page(s):1332 - 1348
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(1652 KB) IEEE JNL
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Afshar, M.; Bates, J.; Bierman, G.; Moody, K.;
Parallel Architectures, Algorithms, and Networks, 1997. (I-SPAN '97) Proceedings. Thir
Symposium on
18-20 Dec. 1997 Page(s):2 - 8
[AbstractPlus](#) | Full Text: [PDF](#)(676 KB) IEEE CNF
- ☐ 3. **An evidential reasoning approach to attribute value conflict resolution in databas**
Ee-Peng Lim; Srivastava, J.; Shekhar, S.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 8, Issue 5, Oct. 1996 Page(s):707 - 723
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